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(54) **Process for the preparation of a polymeric product with a catalyst consisting of an ion pair**

(57) Process for the preparation of a polymeric product by polymerising α -olefins, diolefins and/or acetylenically unsaturated monomers with a catalyst consisting of an ion pair comprising an anion of the general formula $[BAr_1Ar_2X_3X_4]^-$ wherein:

B is boron in a valence state of 3;

Ar_1 and Ar_2 are the same or different aromatic or substituted aromatic hydrocarbon radicals containing from 6 to 20 carbon atoms, optionally linked to each other through a stable bridging group, wherein at least one of Ar_1 and Ar_2 is a fluoro- or fluorohydrocarbyl-substituted, naphthyl

or anthracenyl radical; and

X_3 and X_4 are radicals selected, independently, from hydride radicals, halide radicals, with the proviso that only X_3 or X_4 will be halide at the same time, hydrocarbyl radicals containing from 1 to 20 carbon atoms, substituted hydrocarbyl radicals, wherein one or more of the hydrogen atoms is replaced by a halogen atom, containing from 1 to 20 carbon atoms, hydrocarbyl-substituted metal (organometalloid) radicals wherein each hydrocarbyl substitution contains from 1 to 20 carbon atoms and said metal is Group IV-A of the Periodic Table of Elements.

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EUROPEAN SEARCH REPORT

Application Number
EP 99 20 1940

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	<p>JORDAN R F ET AL: "ETHYLENE POLYMERIZATION BY A CATIONIC DICYCLOPENTADIENYLZIRCONIUM (IV) ALKYL COMPLEX"</p> <p>JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, US, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, vol. 108, 1 January 1986 (1986-01-01), pages 7410-7411, XP002019566</p> <p>ISSN: 0002-7863</p> <p>* page 7411, column 2, paragraph 2 *</p> <p>-----</p>	1	<p>C08F10/00</p> <p>C08F4/643</p>
			<p>TECHNICAL FIELDS SEARCHED (Int.Cl.7)</p> <p>C08F</p>
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	14 June 2000	Fischer, B	
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

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